

Amendments to the Abstract

Please amend the original abstract (page 52) as follows.

ABSTRACT OF THE DISCLOSURE

A1 In an OFDM transmission scheme, in order to compensate any frequency response variation-in time wise resulted from any distortion in a transmission path, out-of-synchronization with passage of time, frequency drift, and phase shift, and to improve a demodulation characteristic, a PS detector-261 in a receiver receiving an OFDM signal detects a pilot symbol. A PS1 TPFR calculator-62 calculates a frequency response of the transmission path for a first pilot symbol, while a PS2 TPFR calculator-63 calculates a frequency response of the transmission path for a second pilot symbol that for a second pilot symbol. Thereafter, a compensation vector calculator-64 calculates compensation vectors from the frequency responses of the transmission path for both of the first and second pilot symbols by linear approximation. A frequency response compensator-65 compensates the frequency response variation of subcarriers in a data symbol based on the calculated compensation vectors.
